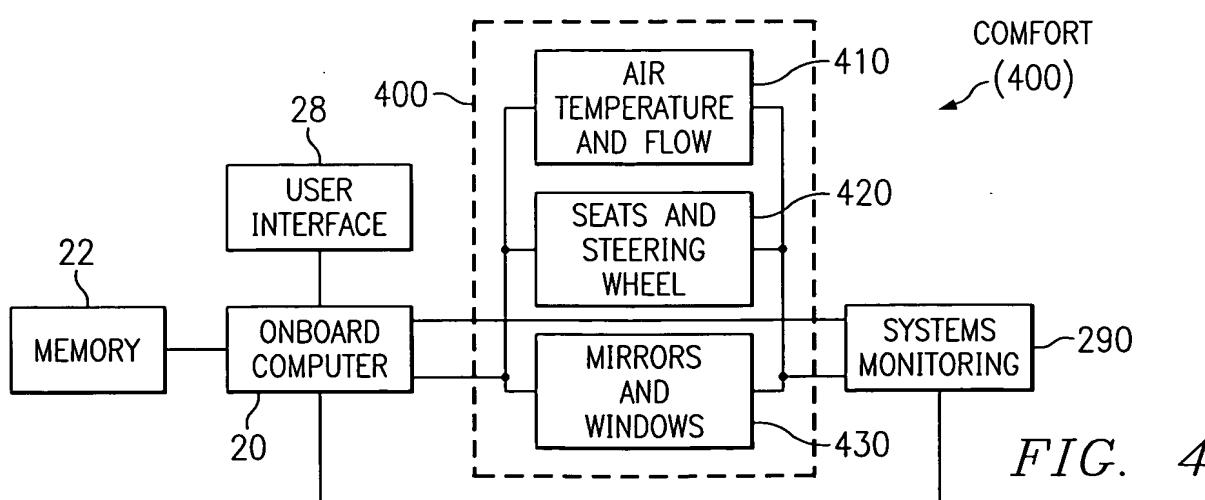
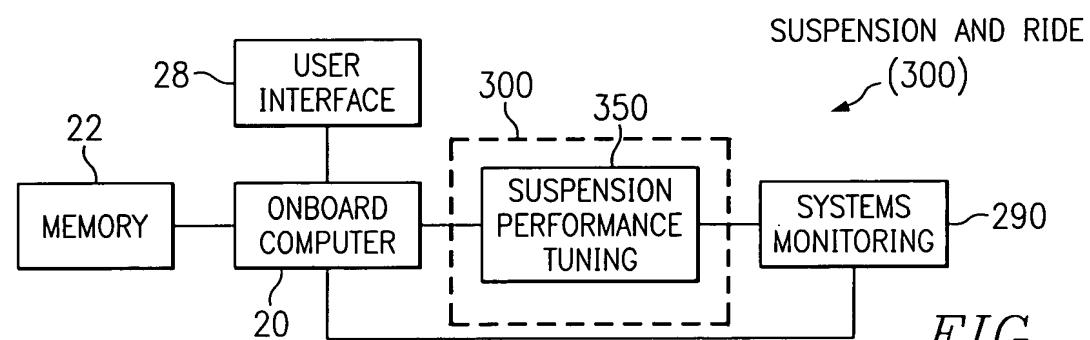
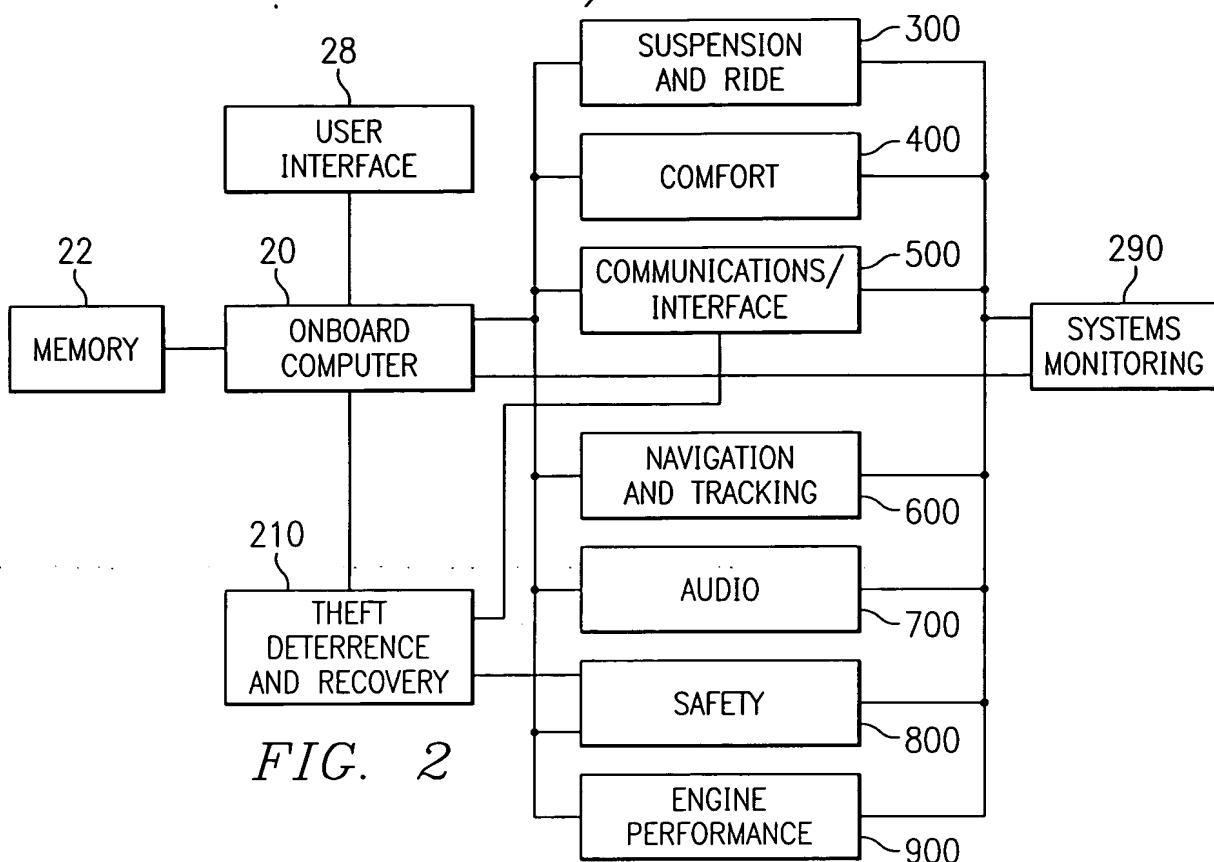


FIG. 1

Method and Apparatus for Automotive Radio Time
Shifting Personalized to Multiple Drivers

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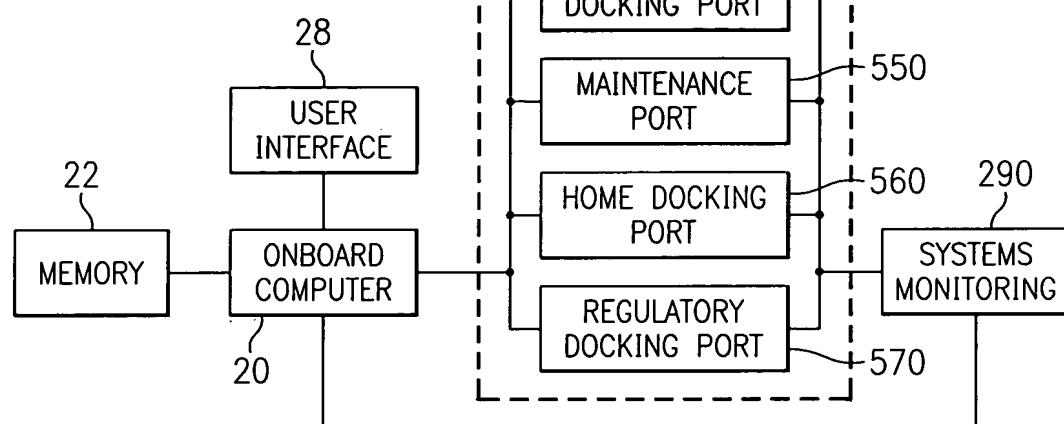


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Method and Apparatus for Automotive Radio Time
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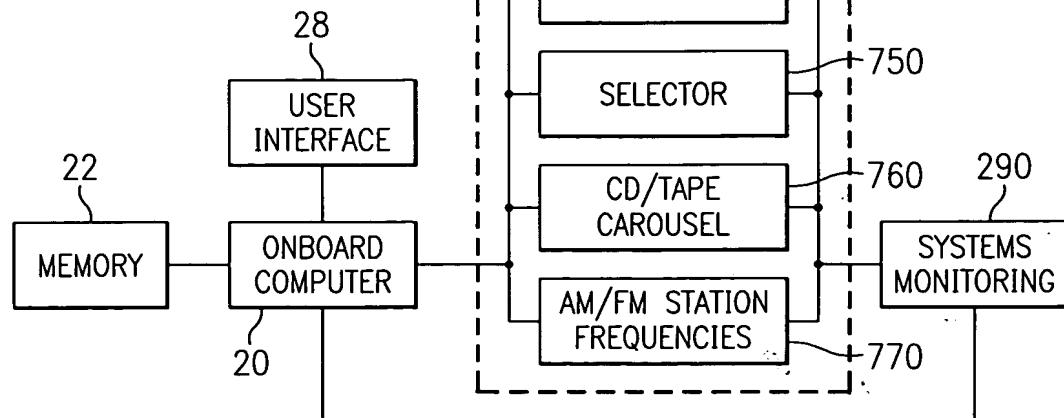
COMMUNICATIONS/INTERFACE
(500) ~

FIG. 5



AUDIO
(700) ~

FIG. 7



Method and Apparatus for Automotive Radio Time
Shifting Personalized to Multiple Drivers

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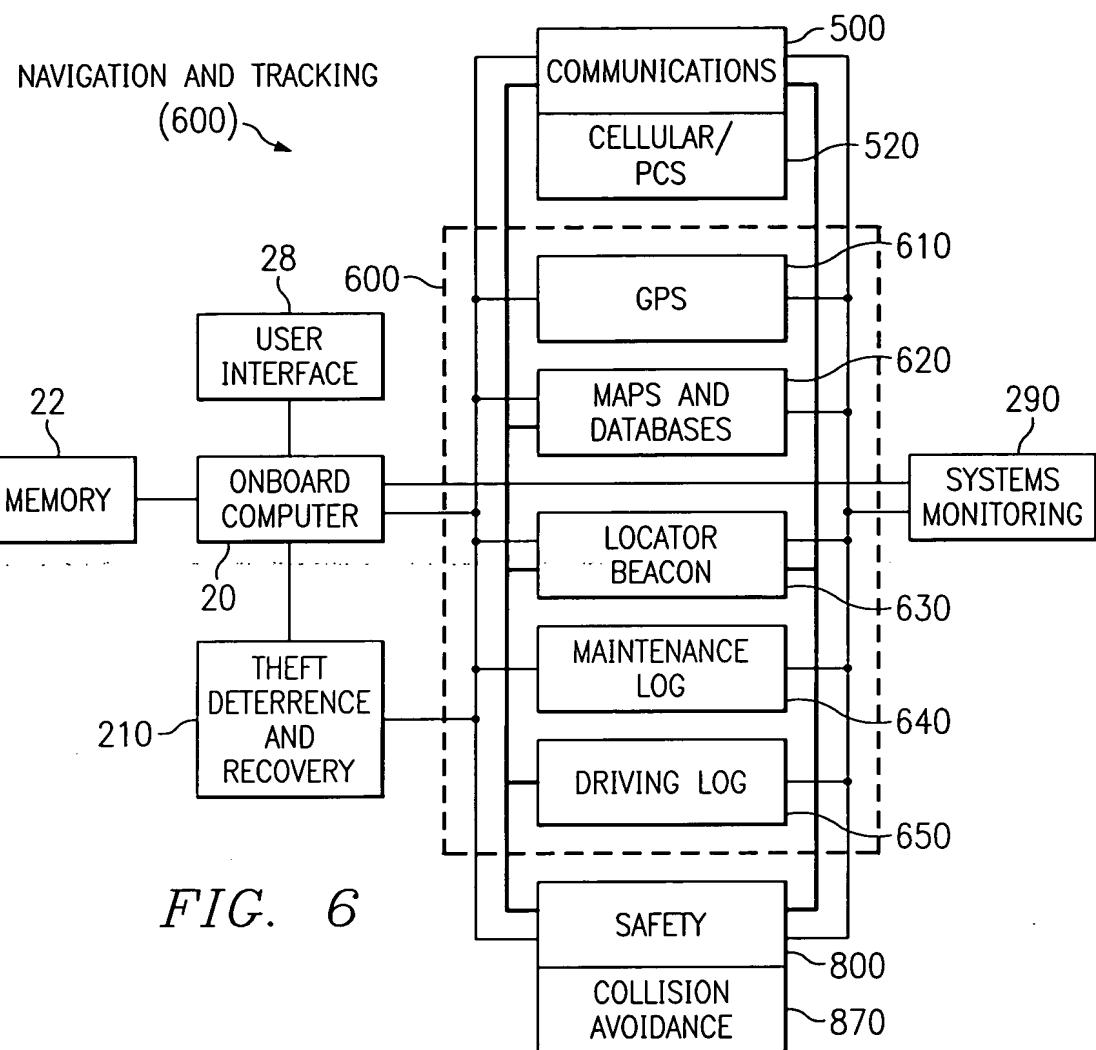


FIG. 6

USER RECORD
USER ID
VERIFICATION
SECURITY LEVEL
PREFERENCES
PREFERENCE LIMITS
USER LOGGED DATA

1400

USER ID
NAME
NUMBER

1500

FIG. 14

FIG. 15

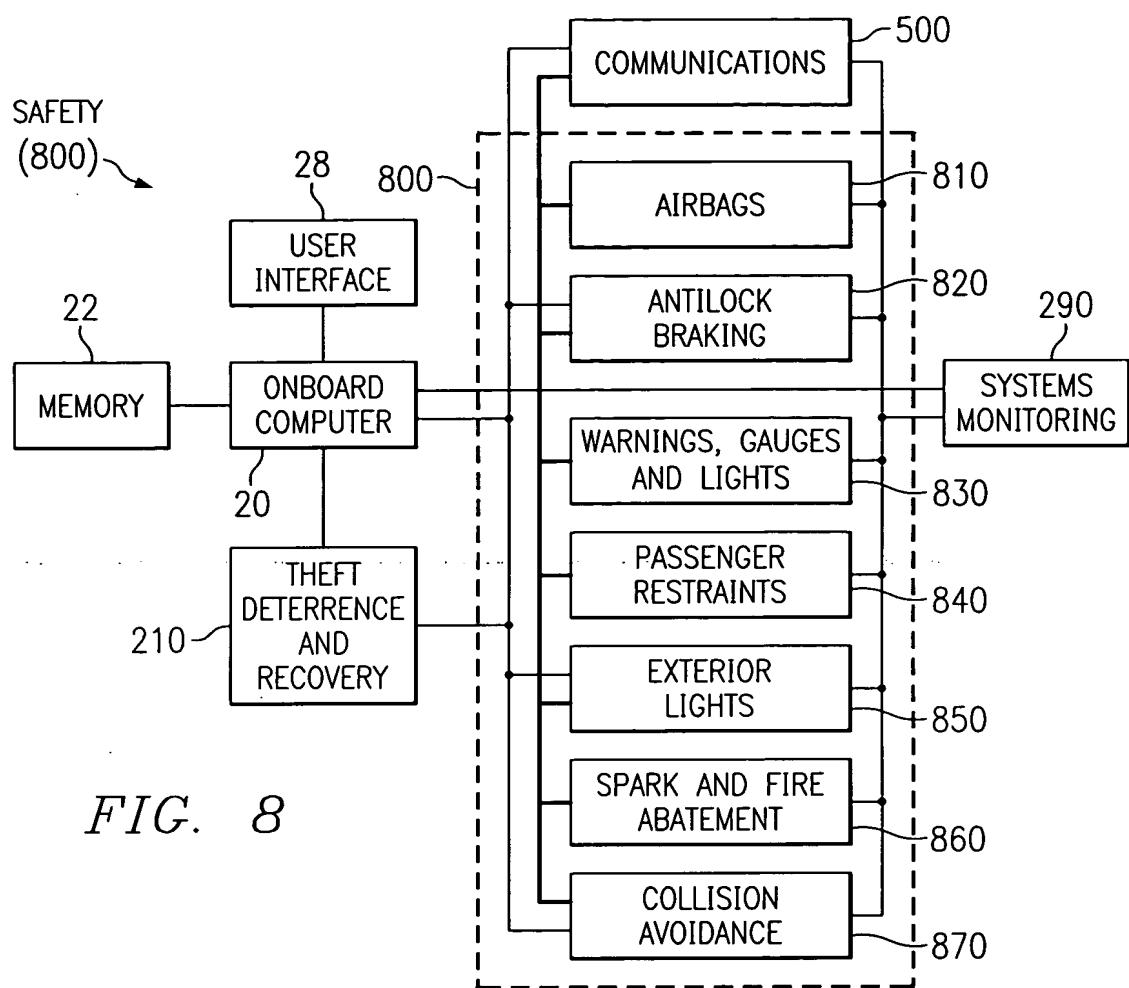


FIG. 8

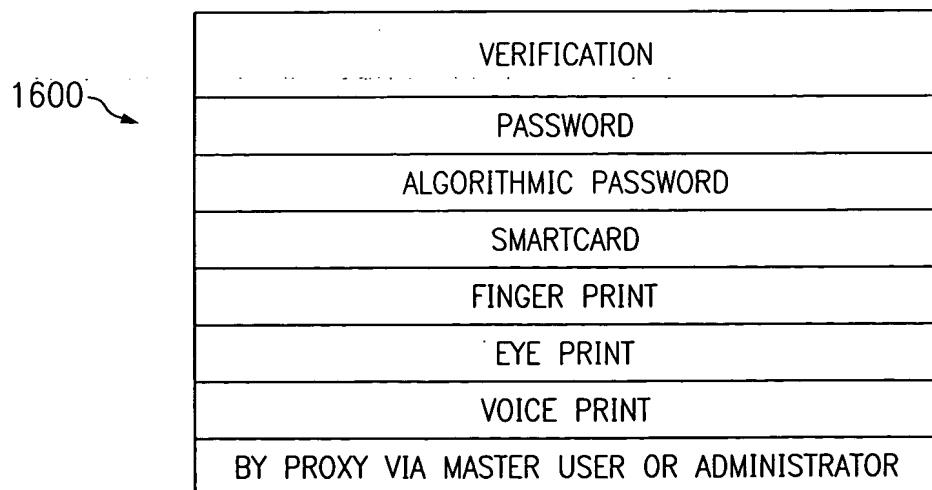


FIG. 16

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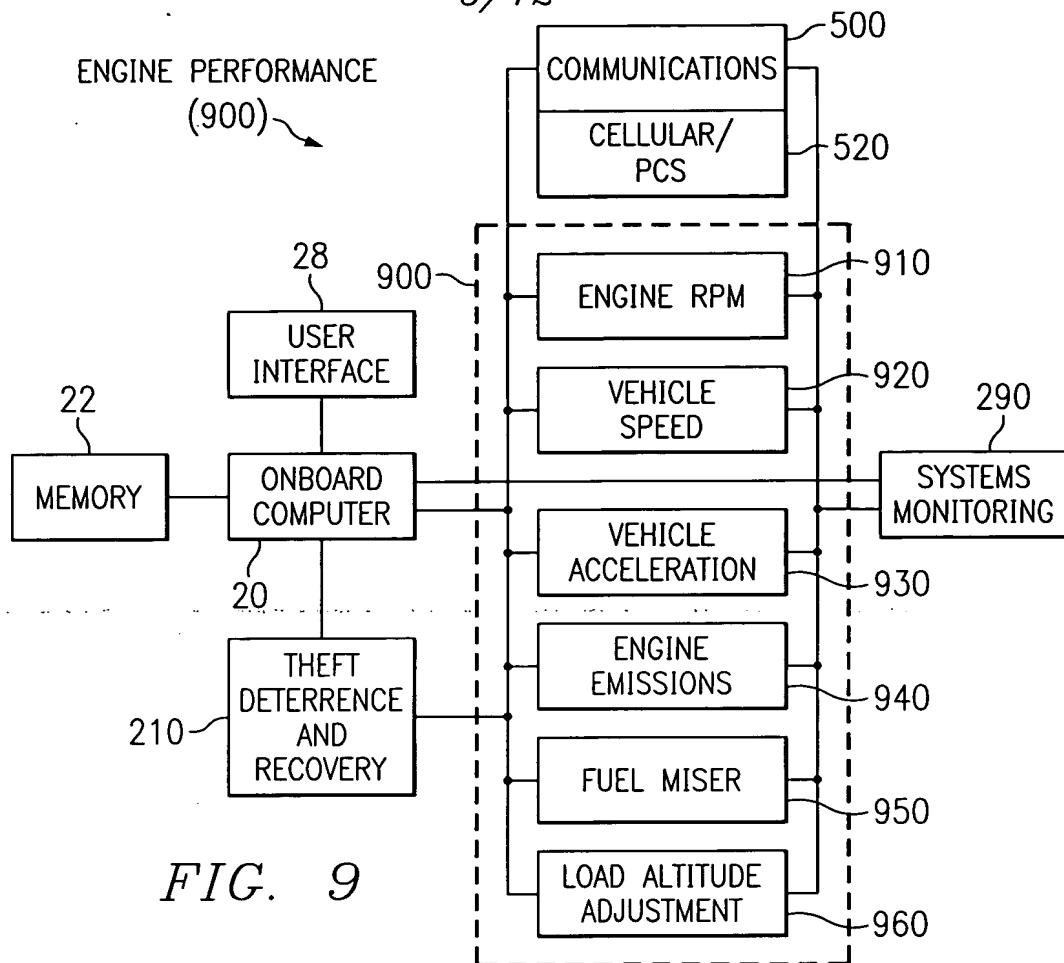


FIG. 9

SECURITY LEVEL
NORMAL USER
MASTER
ADMINISTRATOR
SERVICE CENTER
PARKING ATTENDANT
SEMI-USER
THIEF
DRUNK DRIVER

FIG. 17

PREFERENCES
SEAT ADJUSTMENTS
TEMPERATURE ADJUSTMENTS
RADIO/ENTERTAINMENT SYSTEM ADJUSTMENTS
TELEPHONE NUMBER SETTING
RIDE
ACCELERATION
WARNING MESSAGE PREFERENCE
AIRBAG SETTINGS

FIG. 18

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Shifting Personalized to Multiple Drivers

USER INTERFACE (28)

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FIG. 10

28

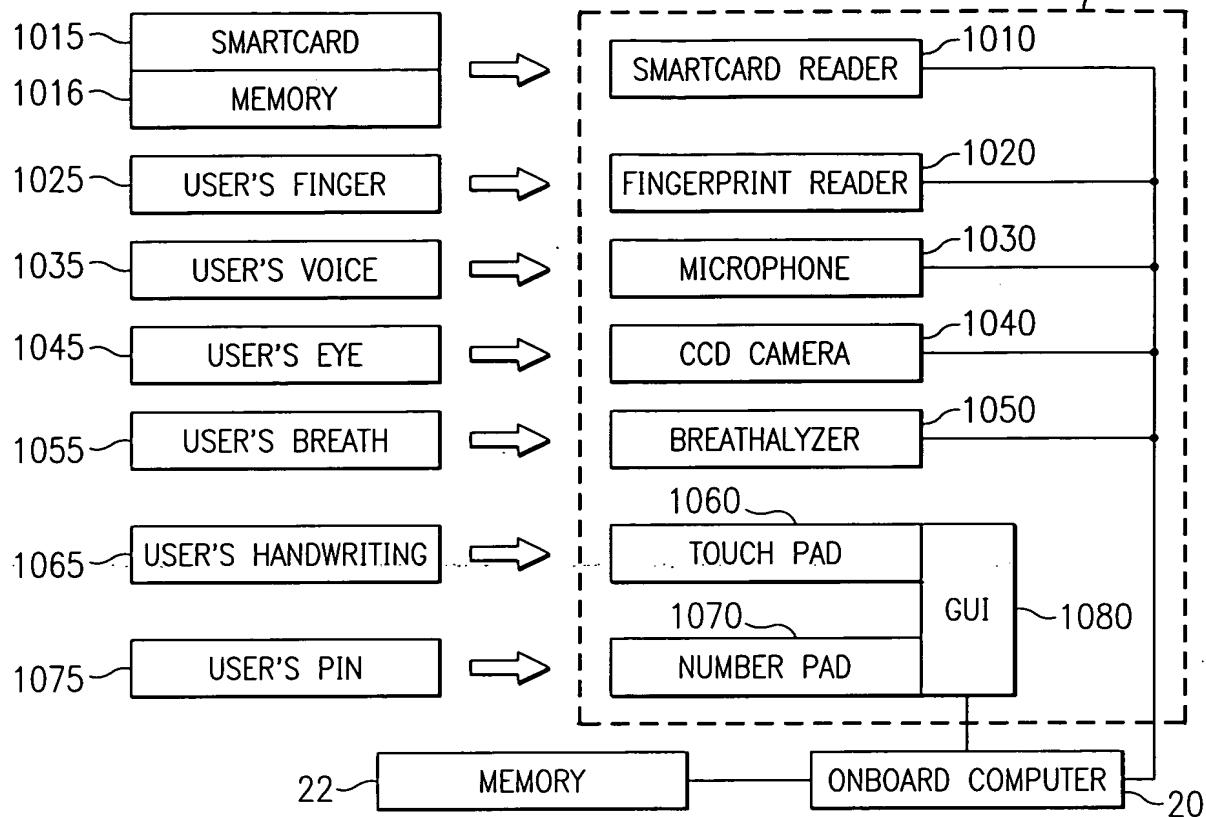
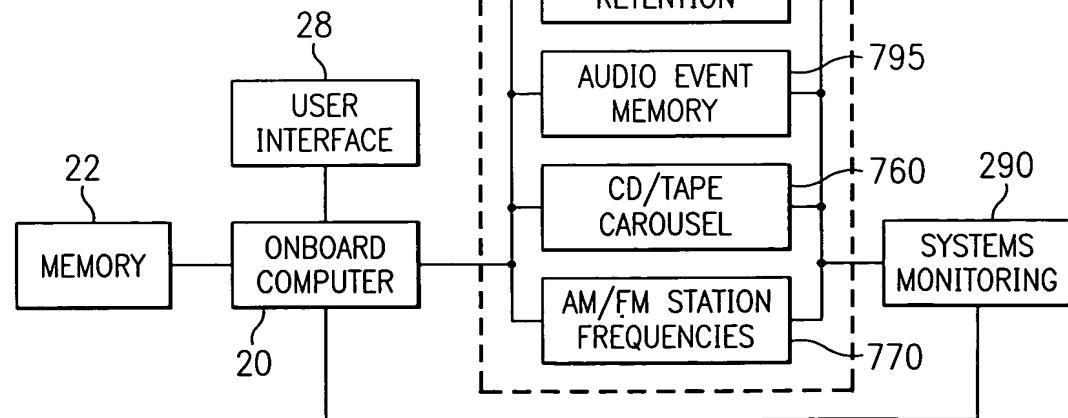
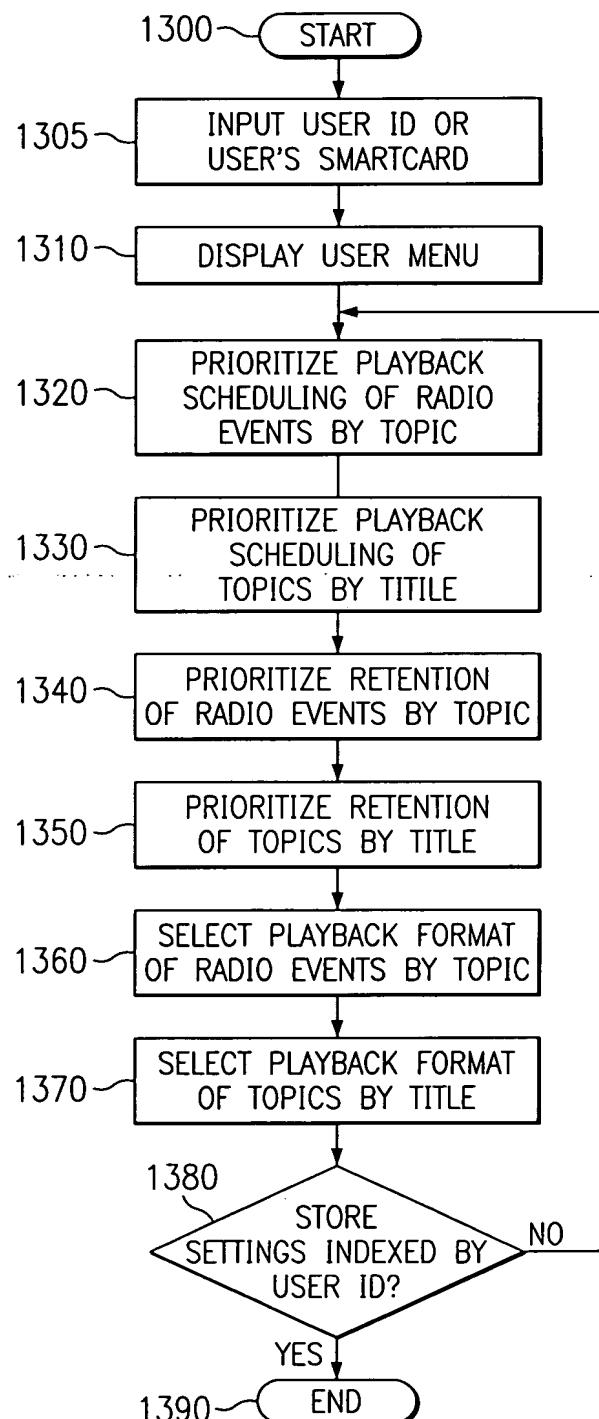
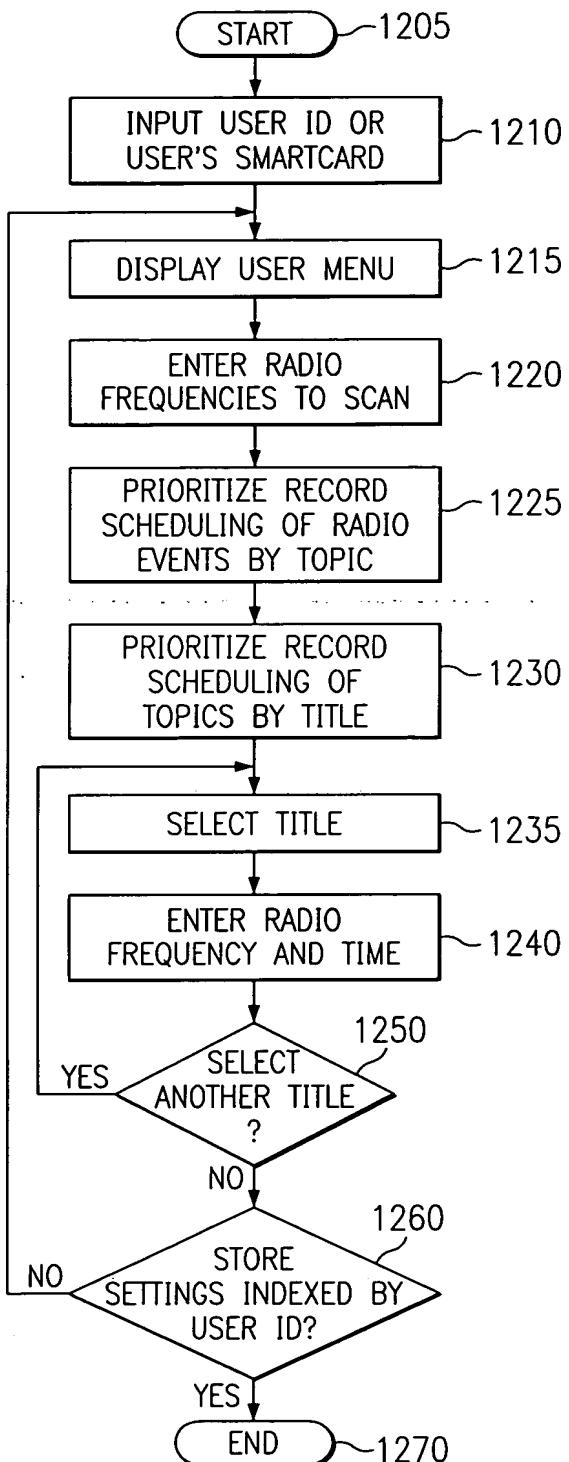


FIG. 11





Method and Apparatus for Automotive Radio Time
Shifting Personalized to Multiple Drivers

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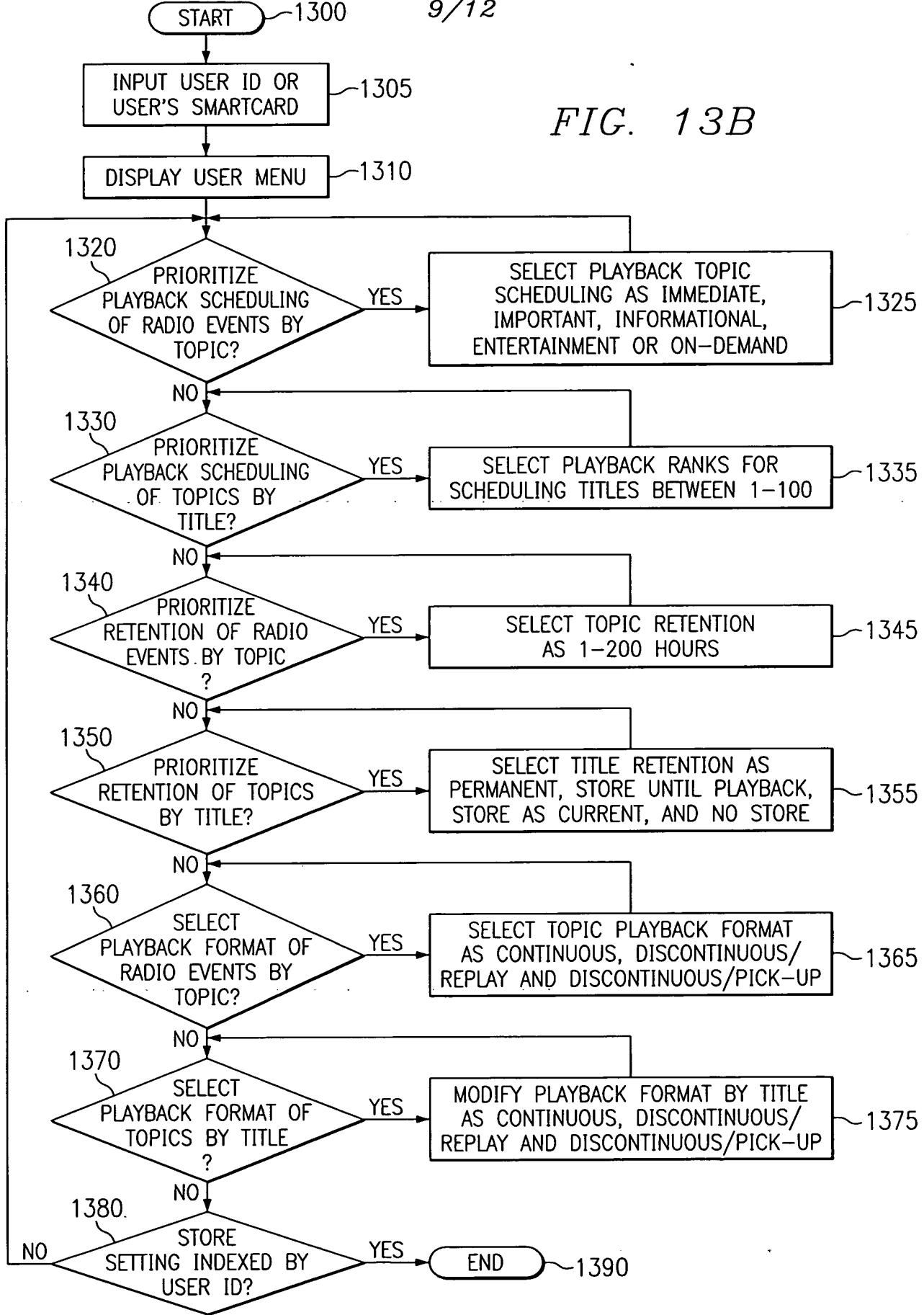


FIG. 13B

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Method and Apparatus for Automotive Radio Time
Shifting Personalized to Multiple Drivers

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1900

2000

PREFERENCE LIMITS
MAXIMUM ENGINE RPMs
MAXIMUM FORWARD ACCELERATION
MAXIMUM SPEED
MAXIMUM RIDE STIFFNESS
MAXIMUM DISTANCE FROM HOME PORT
MAXIMUM DISTANCE FROM STORED ROUTES
MAXIMUM DISTANCE FROM STORED DESTINATION
CASH ACCOUNT BALANCE FOR FUEL
CASH LIMIT FOR FUEL PER UNIT OF TIME
CASH ACCOUNT BALANCE FOR MAINTENANCE
NIGHT DRIVING LIMITS
HOURS OF OPERATION LIMITS
SOBRIETY TEST REQUIREMENT
THEFT RESPONSE
SEATBELT RESTRICTIONS
AIRBAG SETTINGS
CASH ACCOUNT BALANCE FOR SERVICES
MAXIMUM AUDIO SOUND LEVEL
ANTILOCK BRAKE SETTINGS
TRACTION CONTROL SETTINGS

USER LOGGED DATA
HOURS OF ENGINE TIME
HOURS LOGGED IN
MILES TRAVELED
CASH CONSUMED
AVERAGE MPG
MAXIMUM SPEED
AVERAGE SPEED
MAXIMUM ACCELERATION
MAXIMUM ENGINE RPM
ANTILOCK BRAKE ENGAGEMENT
TRACTION CONTROL ENGAGEMENT
AIRBAG DEPLOYMENT
MAXIMUM DISTANCE FROM HOME
MAXIMUM DISTANCE FROM ROUTE
MAXIMUM DISTANCE FROM DESTINATION
GPS TRIP TRACKING
SERVICES USED

FIG. 20

FIG. 19

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Berstis

Method and Apparatus for Automotive Radio Time
Shifting Personalized to Multiple Drivers

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(1700)

(1800)

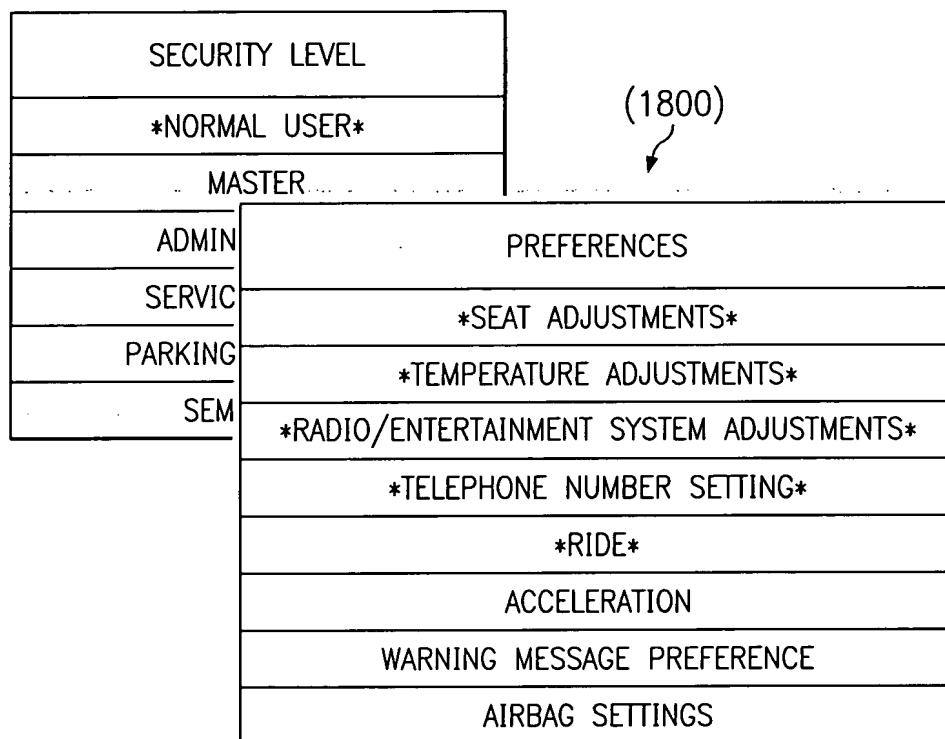


FIG. 21

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Berstis

Method and Apparatus for Automotive Radio Time
Shifting Personalized to Multiple Drivers

1.2/1.2

BROADCAST EVENT ID <u>2202</u>		RECORD PREFERENCES <u>2204</u>		PLAYBACK SCHEDULING PREFERENCES <u>2206</u>		RETENTION <u>2208</u>		PLAYBACK FORMAT <u>2210</u>		PLAYBACK TITLE FORMAT <u>2211</u>	
2213		2215		2217 2219 2221 2223		2225 2227 2229 2231 2233 2235		2237		2237	
2200		2212		2214		2216		2218		2220	
TOPIC	TITLE	DAY	TIME	FREQUENCY	TIME	DAY	TIME	MEMORY STACKING	NUMBER OF COPIES RETAINED	PLAYBACK TOPIC FORMAT	PLAYBACK TITLE FORMAT
NEWS	--	590AM	M-F :05-:10	Imp	--	10Hr	--	1	MONO	DISCONTINUOUS/ PICKUP	--
TRAFFIC REPORT	--	880AM	M-F :10-:15	Imp	--	10Hr	--	1	MONO	CONTINUOUS	--
WEATHER	--	SCAN 880AM 90.5FM	S-S --	Inf	--	24Hr	--	1	MONO	DISCONTINUOUS/ PICKUP	--
WEEKLY TALK	WASH WEEK REVIEW	SCAN 90.5FM	Su --	Inf	50	50Hr	STORE UNTIL PLAYBACK	3	MONO COM:20	DISCONTINUOUS/ PICKUP	DISCONTINUOUS/ PICKUP
WEEKLY TALK	CAR TALK	90.5FM	Sa 5PM-6PM	Inf	20	50Hr	STORE UNTIL PLAYBACK	3	MONO COM:10	DISCONTINUOUS/ PICKUP	DISCONTINUOUS/ REPLAY
ENTERTAINMENT	MUSIC PROGRAMMING	KMF FM	S-S --	Ent	5	--	NO STORE	--	STEREO	--	BACKGROUND
ONE TIME	CLINTON	590AM	Mon 8PM-10PM	O-D	5	50Hr	PERMANENT	1	MONO COM:10	DISCONTINUOUS/ PICKUP	CONTINUOUS

FIG. 22